

Material: STAS 10 CrMo 10

Standard Specification for Steel for Boiler Tubes

Group: Ferrous Mild Steel Alloys

Sub Group: STAS 10 CrMo 10 Steel for Boiler Tubes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.500		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	2.000 - 2.500		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.900 - 1.100		
Titanium	Ti %	0.020 max.	Mechanical Properties	
Arsenic	As %	0.050 max.	Tensile Strength in Mpa	585 min.
Copper	Cu %	0.300 max.	Yield Strength in Mpa	380 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7375	DIN	Germany	Tube
1.7380	EN	European Union	Bar, Plate and Forging
10 CD 9-10	AFNOR NF	France	Plate
J22090	UNS	USA	Casting
10 CrMo 9-10	MSZ	Hungary	Bar, Tube and Forging
10 CrMo 9-10	BS	British	Steel
A356 10	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com